FireDos®

WE ENSURE SAFETY IN FIREFIGHTING WITH FOAM

www.firedos.com

INNOVATIVE FIRE-FIGHTING TECHNOLOGY
FOR THE INDUSTRY AND MOBILE FIRE SERVICE

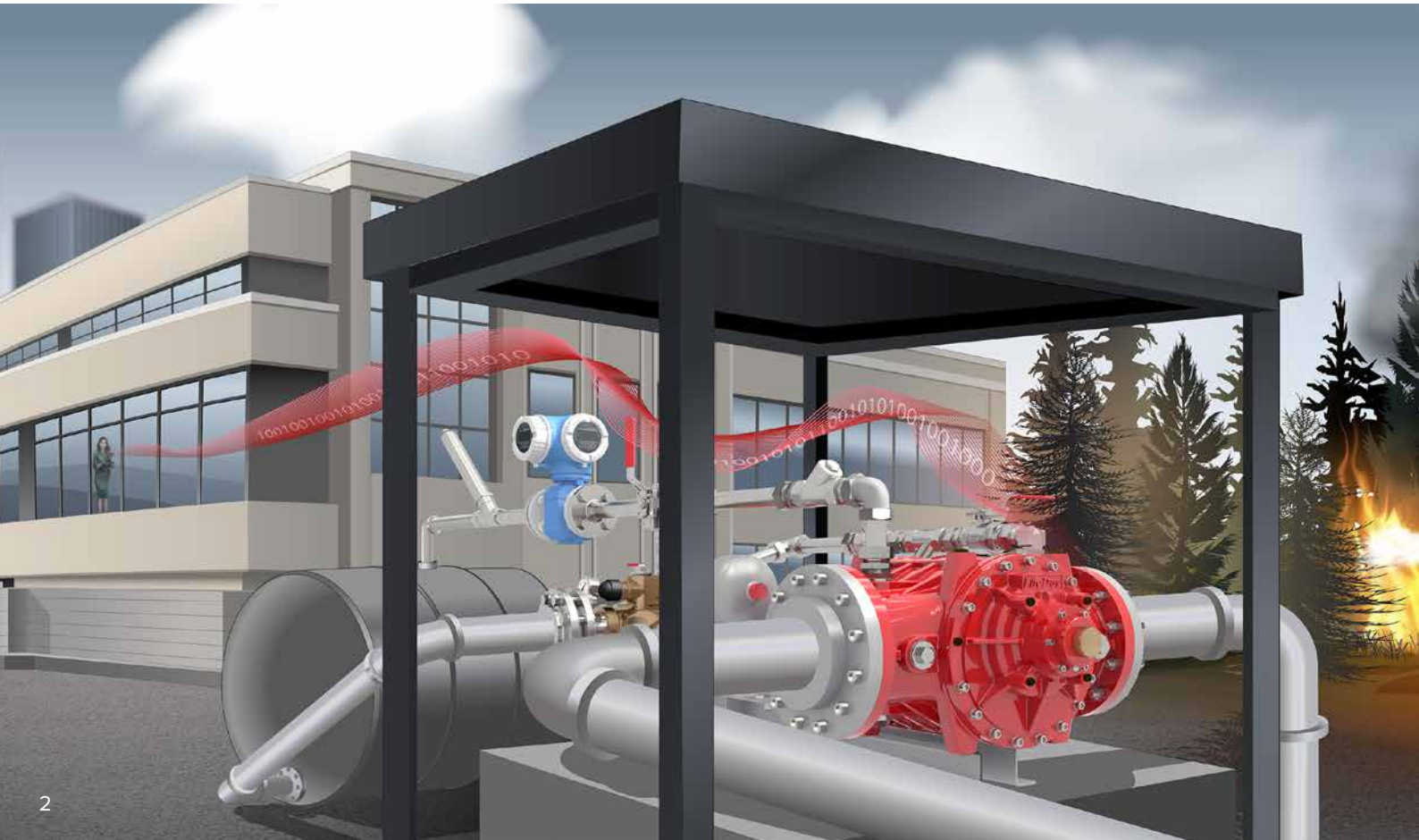
FireDos specialises in the development and production of innovative and highly reliable extinguishing technology. Our product portfolio includes foam proportioning systems, firefighting monitors and fire-fighting trailers – purely mechanical, with smart functions, manually operated or with a specially developed control system.

We provide our customers with safety – through approvals, risk reduction, environmentally friendly technologies, lower operating costs and compliance with all legal regulations. Every single FireDos product is designed, built and extensively tested to the highest quality standards, because ultimately our proportioning systems, firefighting monitors and fire-fighting trailers fulfil a fundamental task: they protect people, nature, buildings, facilities and equipment. We grow with our customers' requirements.

That is why our proportioning systems are optimised for the use of fluorine-free, high-viscosity foam agents.

New technologies also present fire protection with new challenges, e.g. lithium batteries. To detect and prevent fires caused by faulty batteries in waste-to-energy plants at an early stage, our extinguishing monitors are integrated into automatic fire suppression systems.

Whether it's preventive fire protection or active firefighting – fire protection is always environmental protection. This becomes particularly clear when it comes to forest fires. We therefore develop solutions for fire services to combat such fires more efficiently using wetting agent. Furthermore, our stationary proportioning systems allow, as standard, testing of the proportioning rate without the need to produce premix or foam.



WHAT DRIVES US: A PASSION FOR OUR PRODUCTS

Our employees' actions are driven by a passion for our products. Development is based on the idea of enabling customised solutions of the highest technical standard and offering users maximum benefit and ease of use.

WE SET STANDARDS, WORLDWIDE

Our products are thought through down to the smallest detail and are continuously optimised. With our in-house developed product concept, we have set a market standard. For our engineers, reliability, cost-effectiveness and sustainability are our top priorities.

OPTIMISED FOR YOUR APPLICATION

Whether you are a system designer, plant engineer or firefighter, whether you are a user or a sales partner – together we develop solutions that are perfectly tailored to the application. From planning through commissioning, right through to maintenance and the provision of a wide range of spare parts, we are at your side as a partner – backed by a global network.

QUALITY ENSURES SAFETY

Certified to ISO 9001 and 14001, we make a quality commitment to our customers. FireDos products are manufactured from high-quality materials and extensively tested before delivery. International approvals and certifications such as VdS, FM and DNV confirm our promise and enable the worldwide use of our products.

IT ALL BEGAN IN 1979
WITH A WATER MOTOR AND PISTON PUMP

For decades, our mission has been to develop and manufacture high-quality fire-extinguishing technology.

We employ 160 staff at our headquarters in Woelfersheim, Hesse, at our two production sites in Germany and Poland, and at our sales offices in the USA and the United Arab Emirates. Whether in industrial companies, or with professional, plant or volunteer fire brigades – thousands of FireDos proportioning systems and extinguishing monitors are successfully in use worldwide.

Over 30 years ago, we developed the proportioning concept consisting of a water motor and a piston pump and established it on the market. This was accompanied by the ability to test the proportioning rate quickly, environmentally friendly and cost-effectively, without the production of foam or premix.

Since then, we have supplied over 16,000 units to local authorities and industrial customers around the world.

Since 2013, we have been developing and supplying fire extinguishing monitors in a flow-optimised Oval-Flat design, with an extended throw distance, low installation height and minimised recoil forces.

Just as the fire protection industry is constantly evolving, we too are continuously developing new extinguishing solutions for industry and fire services.

Our global sales and service network guarantees comprehensive support before, during and after the purchase of our products. Our customers value the quality and durability of our products and place their trust in us – as experts in enhancing fire-extinguishing performance with foam.

5 sites

160 employees

more than 50 sales partners

1979
Company founded

1994
First use of a proportioning system in the fire service sector

1996
Collaboration with VdS

2001
Certification to DIN ISO 9001 and 14001

2008
First product approval by FM

2010
Development of in-house pump technology

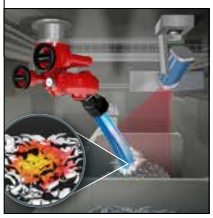
In addition to its production facilities in Germany and Poland, FireDos has branches in the USA and the United Arab Emirates.
The FireDos sales network also comprises over 50 sales partners worldwide.

2013
Expansion of the product portfolio to include extinguishing monitors

2015
Commissioning of the new test bench

2019
Establishment of FireDos US LLC

2021
Introduction of the early fire detection system with automatic extinguishing



2024
Market launch of proportioning systems for high-viscosity foam concentrates

Establishment of FireDos Middle East

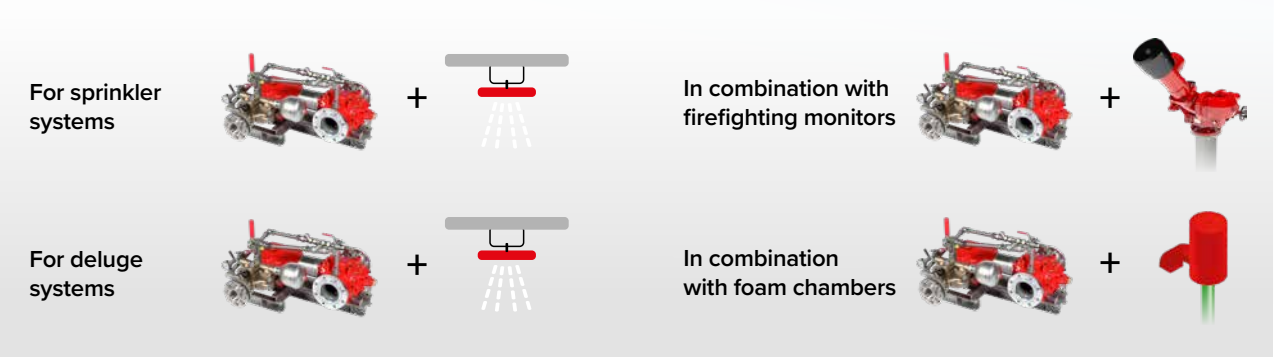
2026
Introduction of the new modular fire monitor control system

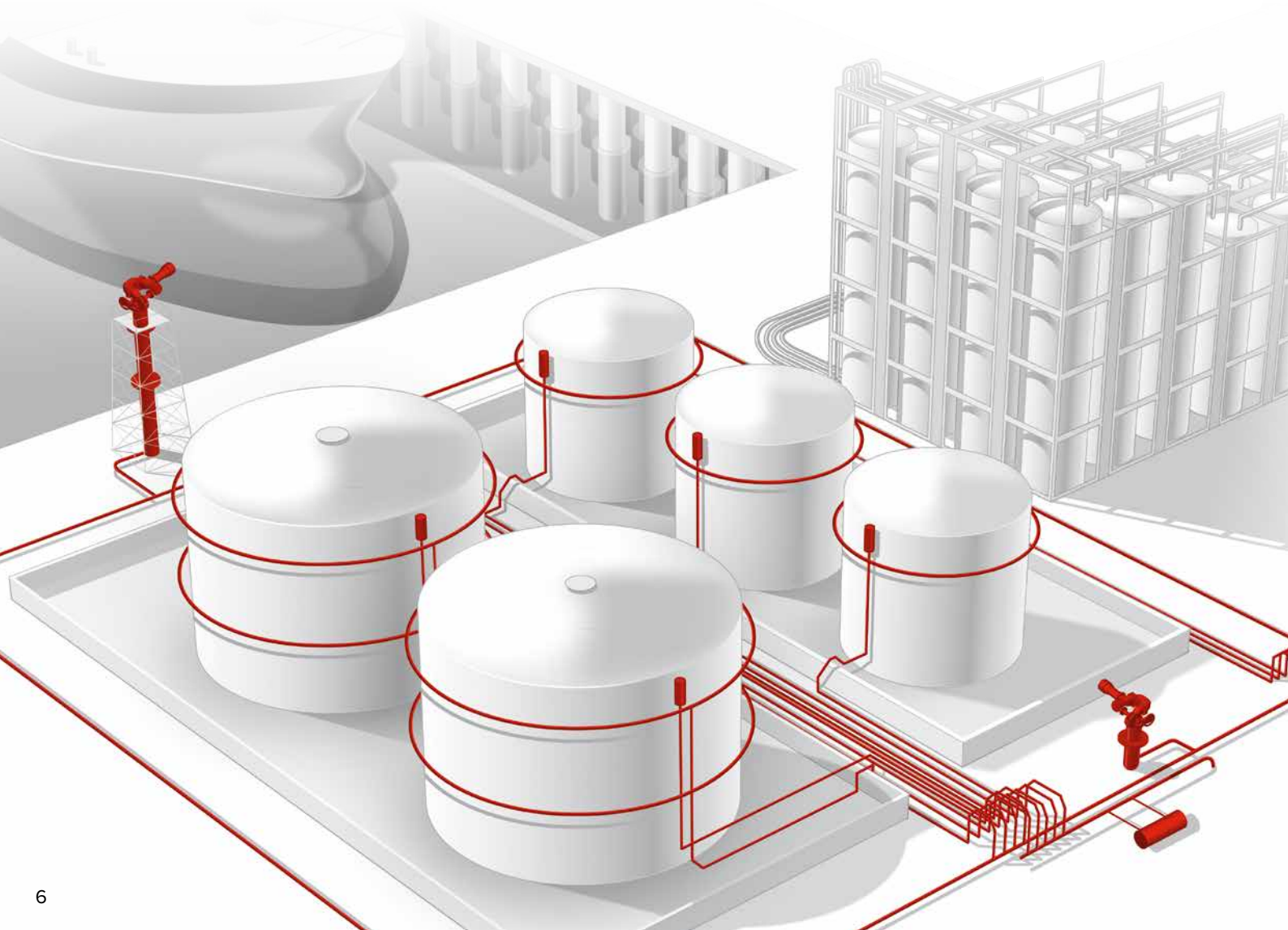
WE DEVELOP THE HEART OF THE EXTINGUISHING SYSTEM AND IMPROVE ITS EFFICIENCY

Many Class A and B fire scenarios can only be effectively tackled with extinguishing foam. To produce this, a foam agent must be precisely mixed into the water stream in an exact ratio. When planning industrial extinguishing systems, the selection of the appropriate foam agent and the stationary foam agent proportioning system is therefore crucial.

CONSISTANT PROPORTIONING RATE – MAXIMUM EFFICIENCY

Driven solely by the flow of water, FireDos's proportioning systems operate purely mechanically, enabling trouble-free, resource-efficient operation.





WHAT IS A FOAM PROPORTIONING SYSTEM?

A foam proportioning system is a device designed to mix foam concentrate into the water used for firefighting in a precisely defined dosage rate, so that effective extinguishing foam is produced. Such systems, also known as proportioners, are used both in fixed fire-fighting systems and as mobile solutions for fire-fighting operations.

Also available as a smart version for remote monitoring and fault indication.

Suitable for extremely high-viscosity, alcohol-resistant and fluorine-free foam concentrates.

Enables environmentally friendly and cost-effective testing of the proportioning rate without producing premix or fire-fighting foam.

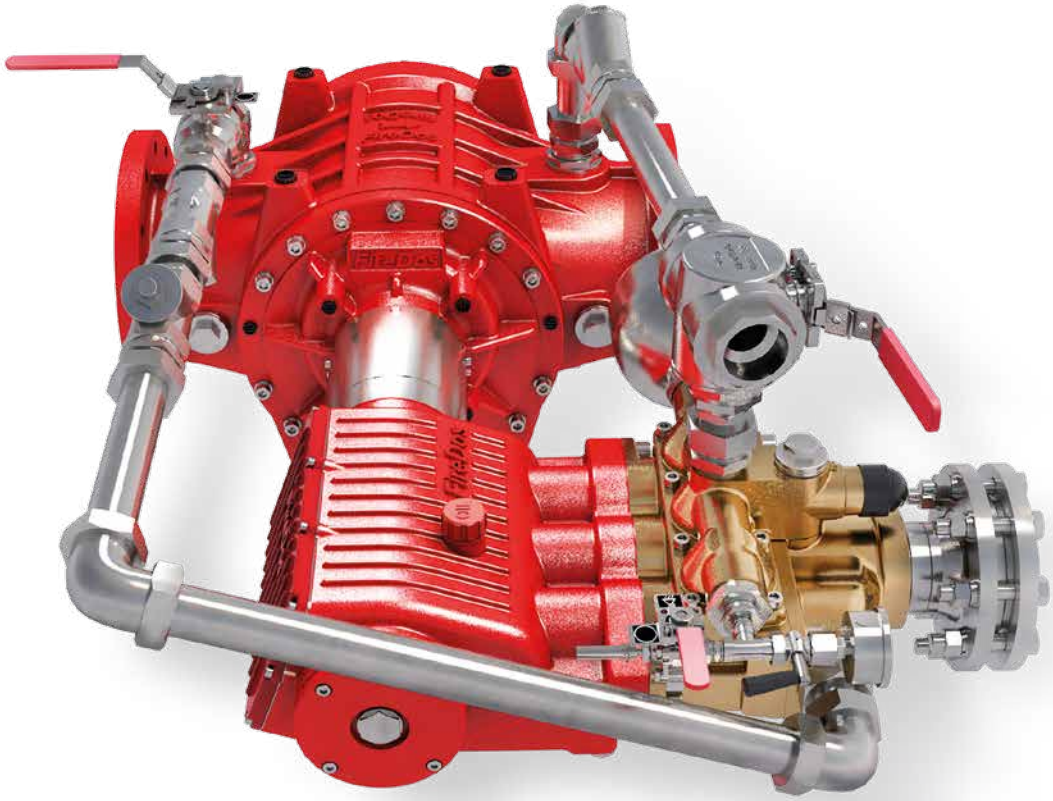
The innovative product concept, consisting of a water motor and a piston pump, is characterised by a consistant and precise proportioning rate across the widest possible operating ranges.

As a result, and due to their independence from the existing extinguishing water pressure and flow rate – even under changing conditions – FireDos proportioning systems meet all the requirements necessary to produce extinguishing agents with optimal effectiveness.

Our stationary proportioning systems are suitable for all foam concentrates – including extremely high-viscosity, alcohol-resistant and fluorine-free foam concentrates – and are used in sprinkler and deluge systems, as well as wet and dry installations.

ENVIRONMENTALLY FRIENDLY AND COST-EFFECTIVE: TESTING CAN BE THIS EASY!

Extinguishing systems must be tested regularly to ensure they function correctly in the event of a fire. This also applies to the proportioning system. FireDos proportioning systems enable cost-effective and environmentally friendly testing of the proportioning rate, without any premix or foam generation. A thoroughly clean and safe solution!



ALWAYS READY FOR ACTION FOR FIREFIGHTING

They deliver thousands of litres of extinguishing water per minute over a distance of more than 150 metres: firefighting monitors, for use with water, foam or powder.

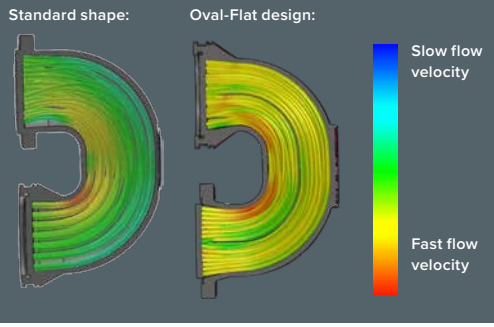
Thanks to the innovative, flow-optimised Oval-Flat design, there is only minimal pressure loss. This enables the compact extinguishing monitors from FireDos to achieve maximum range.

FireDos firefighting monitors are used wherever extinguishing agents suitable for fire classes A and B are employed – whether outdoors or indoors.

Typical applications include tank farms, waste incineration plants, jetties and aircraft hangars.

WHAT IS THE OVAL-FLAT DESIGN?

The difference can be clearly seen: the Oval-Flat design significantly optimises the flow pattern, as evidenced by the more uniform flow profile.



FOR HIGH EXTINGUISHING AGENT FLOWS, IN A COMPACT DESIGN

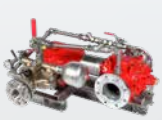
The monitors are designed for fire-fighting agent flows of up to 60,000 l/min and can be controlled both manually and electronically. Depending on the application, numerous sizes are available – all with compact dimensions and a low profile. In combination with thermal imaging cameras or flame detectors they enable automatic fire suppression.

CONVENIENT AND FLEXIBLE TO OPERATE

Due to their design, operating the firefighting monitors requires minimal effort and recoil is minimised. To ensure maximum flexibility in the event of an emergency, the optional AMPN multi-purpose nozzle allows the extinguishing agent flow rate to be adjusted on all models, even during operation – at full operating pressure.

For extinguishing with water

For extinguishing with foam

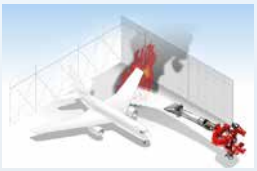


+

For automatic extinguishing

+

For stationary use



For fire engines

For firefighting trailers

WELL EQUIPPED FOR SAFETY IN EVERY OPERATIONAL SITUATION

The crews of professional, plant and volunteer fire services need equipment they can rely on one hundred per cent at all times. FireDos extinguishing monitors and proportioning systems have been specially developed for fire service operations and impress with their ease of use, reliability and flexibility in action.

OPTIMISED FOR FIRE SERVICE OPERATIONS

The innovative product concept behind FireDos's stationary proportioning systems is also reflected in the versions designed for fire services. Thanks to its purely mechanical operation, it ensures absolutely fail-safe performance. It is independent of the vehicle's electrical system and, when installed in roll-off containers or trailers, operates without an external power supply. The innovative cylinder cut-off mechanism allows various mixing ratios to be set, including for the production of wetting agent.

Our high-performance fire monitors can be conveniently operated either mechanically or via the specially developed vehicle control system. The compact designs are ideal for installation as front monitors.

ALWAYS READY FOR ACTION, INTUITIVE TO USE

When every second counts in an emergency, the technology must integrate seamlessly. The FireDos proportioning systems for fire services are ready for use immediately after the proportioning pump has been primed.

The set proportioning rate is always constant, regardless of pressure changes and flow rate. It can be switched with just a few simple steps whilst the system is running. Even in stressful situations, operating the proportioning systems is intuitive.

WHAT IS WETTING AGENT?

Wetting agent refers to extinguishing water with reduced surface tension. It is produced by adding multi-range foam concentrate or wetting agents to natural extinguishing water at a specific proportioning ratio. Thanks to the reduced surface tension, the wetting agent penetrates the burning material deeper than ordinary firefighting water. This means, for example, that forest fires can be tackled quicker, using less water and less foam concentrate. The extinguishing efficiency can be increased by up to 100%.

FLEXIBLE IN APPLICATION – UP TO THE TASK FOR ALL REQUIREMENTS

No two fire service operations or deployments are alike. FireDos proportioning systems adapt perfectly to the operational environment – a wide range of models and optional equipment are available to choose from. Our portable DZ1000 light proportioner even allows for the flexible conversion from a vehicle-mounted unit to a portable system in a matter of seconds. The systems are designed for all types of foam concentrate, including for the production of wetting agent. In doing so, we are setting new standards in the fight against forest fires.

Fire monitors and proportioning systems for fire engines

Portable proportioners

Proportioning systems for roll-off containers

Fire trailers with proportioning system

OUR SERVICE: WORKING FOR YOU WORLDWIDE
FROM PLANNING TO MAINTENANCE

We offer you a comprehensive service – from planning, through training and commissioning, to maintenance and repairs. No matter what stage of the project you are at, we won't leave you alone. Our service staff are on site quickly, anywhere in the world.

GOOD PLANNING IS HALF THE BATTLE

We support you during the planning phase and work with you to develop the perfect solution for your application. Our service technicians and international sales partners are also on hand to assist at any time during on-site commissioning.

WE'RE HERE TO HELP

Of course, we won't leave you alone in the event of a breakdown. We guarantee a rapid response from our service team and short delivery times for spare parts.

SAFETY PAYS OFF

Only regular maintenance of the proportioning systems and fire extinguishing monitors guarantees a flawless operation in an emergency. Make use of our international maintenance service and play it safe!

KNOWLEDGE IS POWER

Only those who are well-informed can react correctly in an emergency. We train your staff – in our training facility at our headquarters in Woelfersheim, Germany, at our training centres in Houston, TX, USA, or Abu Dhabi, UAE, or, if required, on-site at your installation.

DID YOU KNOW THAT ...

... a lack of maintenance is the main cause of malfunctions in most industrial plants?

To ensure operational reliability and minimise downtime, annual maintenance by trained service personnel is essential.
A maintenance contract helps to keep to schedules, save costs and ensure long-term operational readiness.

We can advise you on converting your fire-extinguishing system to fluorine-free foam agents.

We clean FireDos proportioning systems contaminated with fluorine.

WE TAKE RESPONSIBILITY
FOR THE ENVIRONMENT, SOCIETY AND STAKEHOLDERS

As a manufacturer of extinguishing technology, our business activities have always been closely linked to environmental and social issues. In accordance with the ESG principles (Environmental, Social, Governance) set out in our internal company and supplier code, we strive to act responsibly – towards our employees, our customers, society and the environment.

WE TAKE A STAND

Our business processes are based on transparency, integrity and fairness. For us, this forms the basis for a trusting partnership that is designed for the long term and guarantees safety.

PEOPLE AT THE HEART OF WHAT WE DO

Our products help reduce risks to people, buildings, facilities and equipment. We also guarantee the safety of our employees – through a safe and supportive working environment and health-promoting measures.

SUSTAINABLE PRODUCT CONCEPTS

The conscious use of natural resources is a matter of course for us as a manufacturing company. We develop sustainable product concepts that provide long-term safety. This is simply part of what we do, because, after all, fire protection is environmental protection: fires release significant amounts of CO2, particularly when burning organic materials such as wood, plastics or fossil fuels. So, by extinguishing fires quickly and efficiently, we help to reduce CO2 emissions.

OUR VALUES

APPRECIATION

Our relationships with all people and also with the environment are characterised by fair, honest, sustainable, appreciative and respectful interaction.

OPENNESS

Every person and every client is unique; every project requires a tailored approach. With openness and tolerance, we create solutions that are precisely tailored to the requirements. We learn from our mistakes in order to develop further. We celebrate success together and grow alongside our tasks.

RELIABILITY

We stand by our words and decisions. Reliability, quality and responsibility are a matter of course for us. As the foundation for this, we prioritise occupational safety and the health of our employees.

TEAM SPIRIT

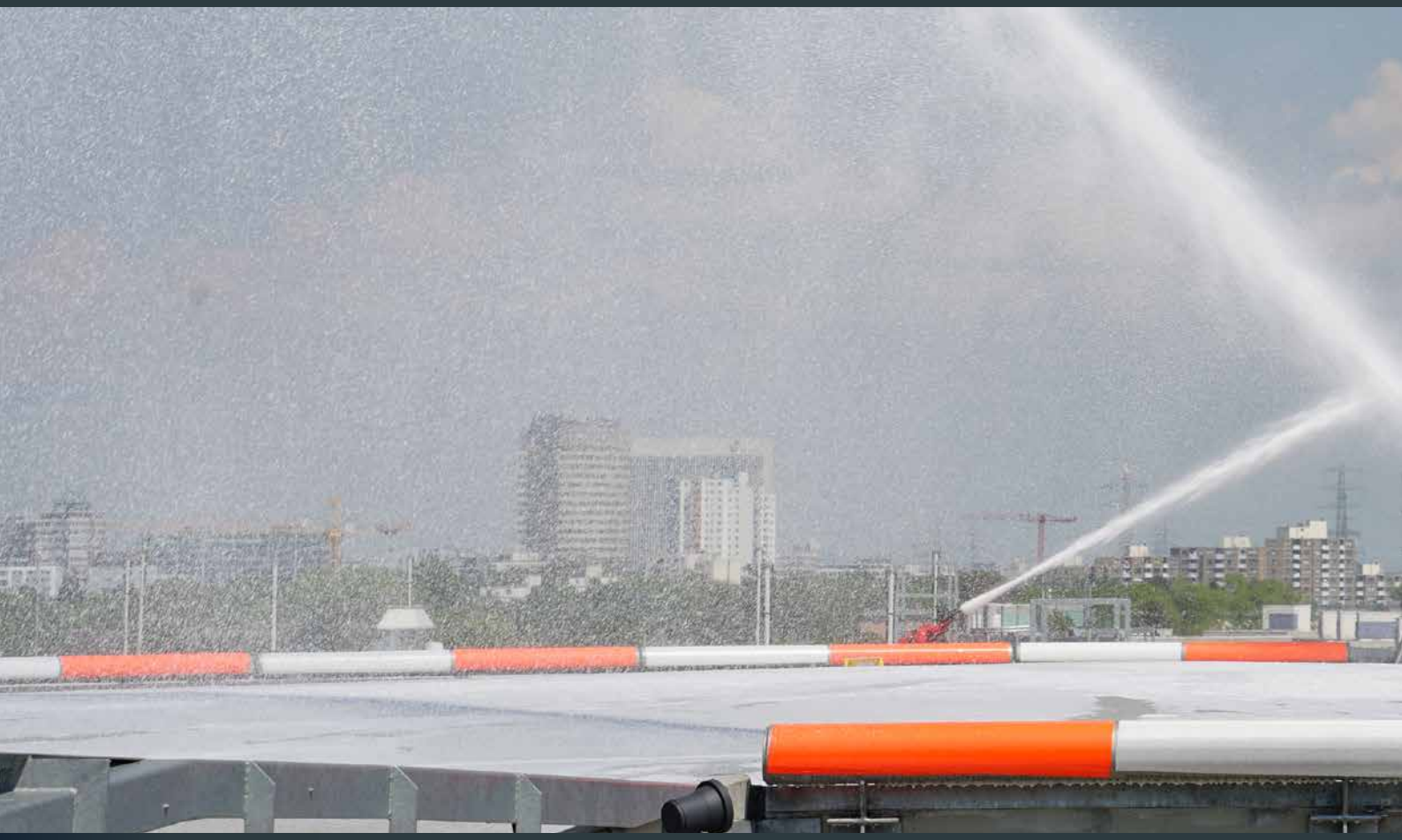
We work together as equals and, on this basis, support our customers before, during and after the purchasing process. With a global presence, we provide local support at every stage of our collaboration, targeted communication and rapid service. Seamless transitions between the individual project phases are a matter of course for us.

FUTURE-ORIENTED

The development of preventive and defensive technical fire protection not only provides sustainable safety, but also protects people, property and the environment. To achieve this, we are constantly working on innovative, efficient and unconventional solutions. We view efficient fire protection as active, future-oriented environmental protection.

OUR PRODUCTS PROTECT ...

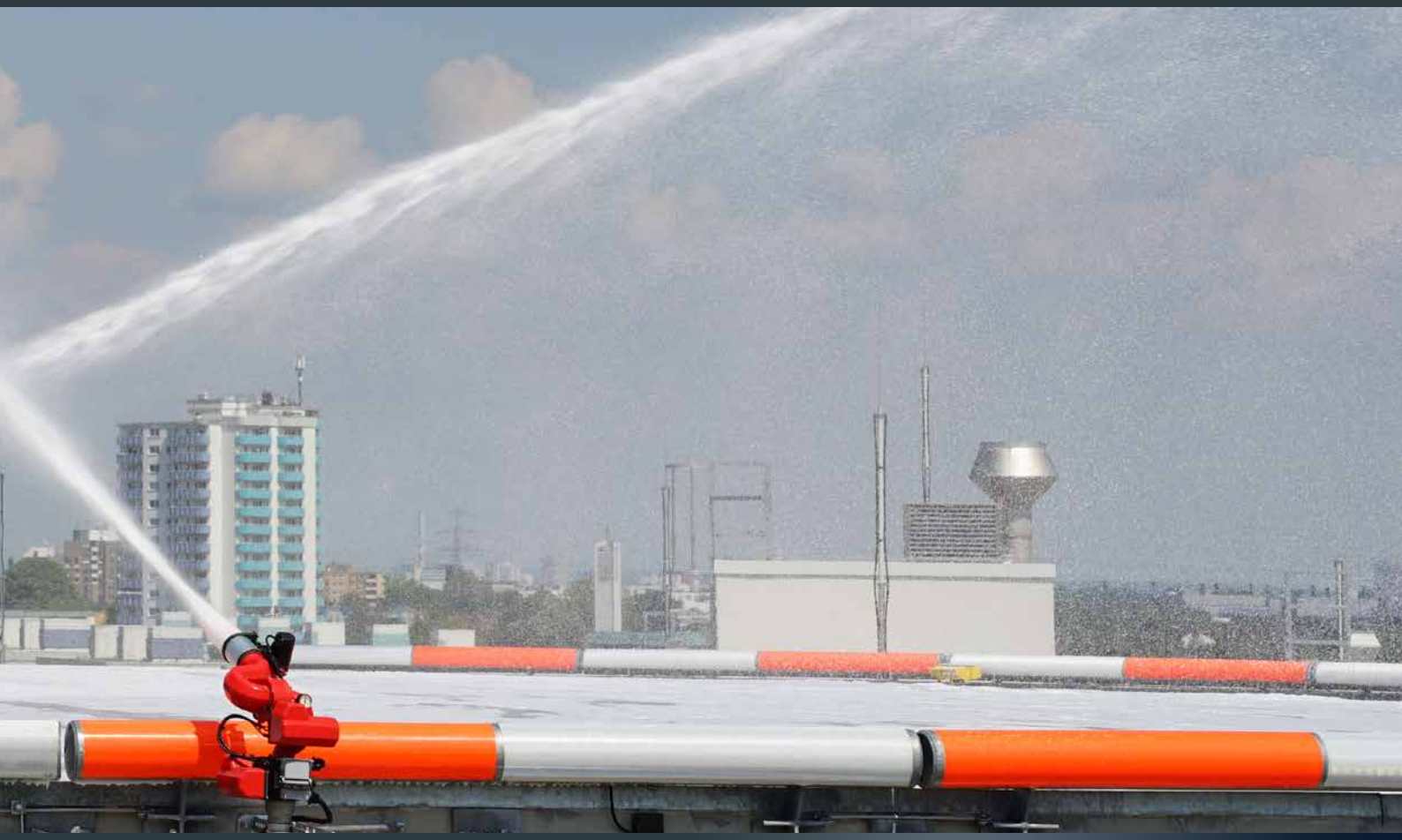
... PEOPLE, NATURE, BUILDINGS, FACILITIES AND OPERATING EQUIPMENT.

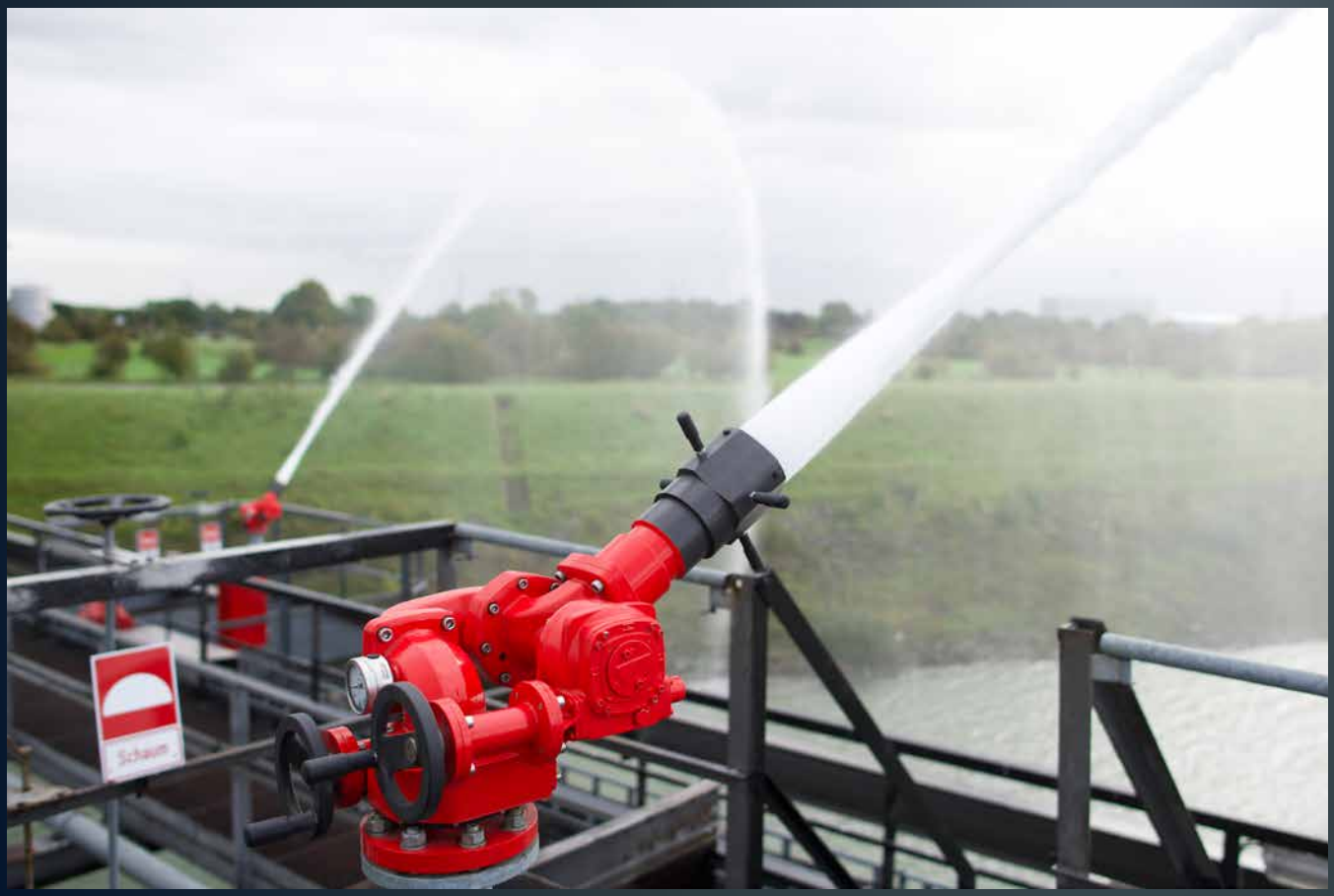


WHEN FLAMMABLE LIQUIDS ...

FUELS, OIL,
PAINTS, VARNISHES,
ALCOHOL,
SOLVENTS

... BECOME A HAZARD.

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IN THE EVENT OF FAILURES, HUMAN ERROR AND ...

INDUSTRIAL FIRES,
TANK FIRES,
BATTERY FIRES,
FOREST FIRES

... FORCE MAJEURE.

SO THAT A SMOLDERING FIRE ...

PAPER, WOOD, DEFECTIVE BATTERIES, SHORT CIRCUITS, OVERHEATING

... DOES NOT TURN INTO A WILDFIRE.

FireDos®

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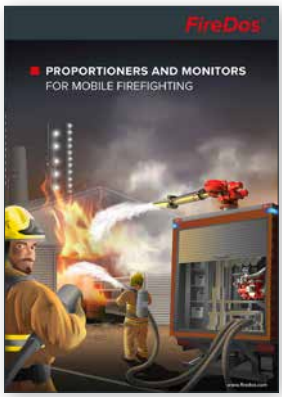
Further brochures:



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